

Tapan Kumar Mohanta

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

5,445
citations

147566

31
h-index

85405

71
g-index

108
all docs

108
docs citations

108
times ranked

7091
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting EST databases for the development and characterization of gene-derived SSR-markers in barley (<i>Hordeum vulgare</i> L.). <i>Theoretical and Applied Genetics</i> , 2003, 106, 411-422.	1.8	2,073
2	Aflatoxins: A Global Concern for Food Safety, Human Health and Their Management. <i>Frontiers in Microbiology</i> , 2016, 07, 2170.	1.5	474
3	Antimicrobial, Antioxidant and Cytotoxic Activity of Silver Nanoparticles Synthesized by Leaf Extract of <i>Erythrina suberosa</i> (Roxb.). <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 14.	1.6	202
4	The diversity of fungal genome. <i>Biological Procedures Online</i> , 2015, 17, 8.	1.4	173
5	Anti-biofilm and Antibacterial Activities of Silver Nanoparticles Synthesized by the Reducing Activity of Phytoconstituents Present in the Indian Medicinal Plants. <i>Frontiers in Microbiology</i> , 2020, 11, 1143.	1.5	139
6	Current Understanding of the Interplay between Phytohormones and Photosynthesis under Environmental Stress. <i>International Journal of Molecular Sciences</i> , 2015, 16, 19055-19085.	1.8	122
7	Phytochemical and medicinal importance of <i>Ginkgo biloba</i> L.. <i>Natural Product Research</i> , 2014, 28, 746-752.	1.0	114
8	Identification of new members of the MAPK gene family in plants shows diverse conserved domains and novel activation loop variants. <i>BMC Genomics</i> , 2015, 16, 58.	1.2	108
9	Silver Nanoparticles Synthesized Using Wild Mushroom Show Potential Antimicrobial Activities against Food Borne Pathogens. <i>Molecules</i> , 2018, 23, 655.	1.7	102
10	Biosynthesis of Silver Nanoparticles from <i>Protium serratum</i> and Investigation of their Potential Impacts on Food Safety and Control. <i>Frontiers in Microbiology</i> , 2017, 8, 626.	1.5	90
11	<i>Trichoderma</i> metabolites as biological control agents against <i>Phytophthora</i> pathogens. <i>Biological Control</i> , 2016, 92, 128-138.	1.4	89
12	Large Scale Screening of Ethnomedicinal Plants for Identification of Potential Antibacterial Compounds. <i>Molecules</i> , 2016, 21, 293.	1.7	79
13	Early Events in Plant Abiotic Stress Signaling: Interplay Between Calcium, Reactive Oxygen Species and Phytohormones. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 1033-1049.	2.8	78
14	Genomics and evolutionary aspect of calcium signaling event in calmodulin and calmodulin-like proteins in plants. <i>BMC Plant Biology</i> , 2017, 17, 38.	1.6	72
15	<i>Ginkgo biloba</i> Responds to Herbivory by Activating Early Signaling and Direct Defenses. <i>PLoS ONE</i> , 2012, 7, e32822.	1.1	72
16	Genome-wide identification of Calcineurin B-Like (CBL) gene family of plants reveals novel conserved motifs and evolutionary aspects in calcium signaling events. <i>BMC Plant Biology</i> , 2015, 15, 189.	1.6	69
17	Molecular Players of EF-hand Containing Calcium Signaling Event in Plants. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1476.	1.8	69
18	Genomics, molecular and evolutionary perspective of NAC transcription factors. <i>PLoS ONE</i> , 2020, 15, e0231425.	1.1	65

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19	Genome Editing Tools in Plants. <i>Genes</i> , 2017, 8, 399.	1.0	63
20	The molecular mass and isoelectric point of plant proteomes. <i>BMC Genomics</i> , 2019, 20, 631.	1.2	62
21	Novel Genomic and Evolutionary Insight of WRKY Transcription Factors in Plant Lineage. <i>Scientific Reports</i> , 2016, 6, 37309.	1.6	55
22	Green synthesis and antimicrobial activity of silver nanoparticles using wild medicinal mushroom <i>Ganoderma applanatum</i> (Pers.) Pat. from Similipal Biosphere Reserve, Odisha, India. <i>IET Nanobiotechnology</i> , 2016, 10, 184-189.	1.9	54
23	Silicon and Gibberellins: Synergistic Function in Harnessing ABA Signaling and Heat Stress Tolerance in Date Palm (<i>Phoenix dactylifera</i> L.). <i>Plants</i> , 2020, 9, 620.	1.6	54
24	Bioinspired synthesis of silver nanoparticles from leaf extracts of <i>Cleistanthus collinus</i> (Roxb.): its potential antibacterial and anticancer activities. <i>IET Nanobiotechnology</i> , 2018, 12, 343-348.	1.9	52
25	Systems biology approach in plant abiotic stresses. <i>Plant Physiology and Biochemistry</i> , 2017, 121, 58-73.	2.8	48
26	Gene Loss and Evolution of the Plastome. <i>Genes</i> , 2020, 11, 1133.	1.0	48
27	Functional genomics and signaling events in mycorrhizal symbiosis. <i>Journal of Plant Interactions</i> , 2015, 10, 21-40.	1.0	39
28	Differential expression of CPKs and cytosolic Ca ²⁺ variation in resistant and susceptible apple cultivars (<i>Malus x domestica</i>) in response to the pathogen <i>Erwinia amylovora</i> and mechanical wounding. <i>BMC Genomics</i> , 2013, 14, 760.	1.2	38
29	Rhizosphere Microbiome of Arid Land Medicinal Plants and Extra Cellular Enzymes Contribute to Their Abundance. <i>Microorganisms</i> , 2020, 8, 213.	1.6	37
30	Expression of four phosphate transporter genes from Finger millet (<i>Eleusine coracana</i> L.) in response to mycorrhizal colonization and Pi stress. <i>3 Biotech</i> , 2017, 7, 17.	1.1	34
31	Unraveling the Intricate Nexus of Molecular Mechanisms Governing Rice Root Development: OsMPK3/6 and Auxin-Cytokinin Interplay. <i>PLoS ONE</i> , 2015, 10, e0123620.	1.1	33
32	Genome-Wide Identification of Calcium Dependent Protein Kinase Gene Family in Plant Lineage Shows Presence of Novel D-x-D and D-E-L Motifs in EF-Hand Domain. <i>Frontiers in Plant Science</i> , 2015, 6, 1146.	1.7	31
33	Multi-Drug Resistant Coliform: Water Sanitary Standards and Health Hazards. <i>Frontiers in Pharmacology</i> , 2018, 9, 311.	1.6	31
34	Narrative Review: Bioactive Potential of Various Mushrooms as the Treasure of Versatile Therapeutic Natural Product. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 728.	1.5	24
35	Molecular players of auxin transport systems: advances in genomic and molecular events. <i>Journal of Plant Interactions</i> , 2018, 13, 483-495.	1.0	23
36	Genomic and evolutionary aspects of chloroplast tRNA in monocot plants. <i>BMC Plant Biology</i> , 2019, 19, 39.	1.6	22

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37	Fungi contain genes associated with flavonoid biosynthesis pathway. <i>Journal of Functional Foods</i> , 2020, 68, 103910.	1.6	21
38	Phyto-assisted synthesis of bio-functionalised silver nanoparticles and their potential anti-oxidant, anti-microbial and wound healing activities. <i>IET Nanobiotechnology</i> , 2017, 11, 1027-1034.	1.9	20
39	Identification and Expression Analysis of PIN-Like (PILS) Gene Family of Rice Treated with Auxin and Cytokinin. <i>Genes</i> , 2015, 6, 622-640.	1.0	19
40	Nutritional assessment study and role of green silver nanoparticles in shelf-life of coconut endosperm to develop as functional food. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1280-1288.	1.8	19
41	Novel Genomic and Evolutionary Perspective of Cyanobacterial tRNAs. <i>Frontiers in Genetics</i> , 2017, 8, 200.	1.1	18
42	Bacterial synthesized metal and metal salt nanoparticles in biomedical applications: An up and coming approach. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5810.	1.7	18
43	Molecular Insights into the MAPK Cascade during Viral Infection: Potential Crosstalk between HCQ and HCQ Analogues. <i>BioMed Research International</i> , 2020, 2020, 1-9.	0.9	18
44	N-glycosylation, a leading role in viral infection and immunity development. <i>Molecular Biology Reports</i> , 2022, 49, 8109-8120.	1.0	18
45	Effect of Hybridization on Somatic Mutations and Genomic Rearrangements in Plants. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3758.	1.8	17
46	Analyses of Genomic tRNA Reveal Presence of Novel tRNAs in <i>Oryza sativa</i> . <i>Frontiers in Genetics</i> , 2017, 8, 90.	1.1	16
47	Development of Graphene Oxide Nanosheets as Potential Biomaterials in Cancer Therapeutics: An In-Vitro Study Against Breast Cancer Cell Line. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4236-4249.	1.9	15
48	Genome-wide identification of major protein families of cyanobacteria and genomic insight into the circadian rhythm. <i>European Journal of Phycology</i> , 2017, 52, 149-165.	0.9	14
49	Biotransformation of benzoin by <i>Sphingomonas</i> sp. LK11 and ameliorative effects on growth of <i>Cucumis sativus</i> . <i>Archives of Microbiology</i> , 2019, 201, 591-601.	1.0	14
50	Complete genome sequence of the mountain-cultivated ginseng endophyte <i>Burkholderia stabilis</i> and its antimicrobial compounds against ginseng root rot disease. <i>Biological Control</i> , 2020, 140, 104126.	1.4	14
51	Space Breeding: The Next-Generation Crops. <i>Frontiers in Plant Science</i> , 2021, 12, 771985.	1.7	14
52	Edible Mushrooms as Novel Myco-Therapeutics: Effects on Lipid Level, Obesity and BMI. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 211.	1.5	14
53	Exploring Dose-Dependent Cytotoxicity Profile of <i>Gracilaria edulis</i> -Mediated Green Synthesized Silver Nanoparticles against MDA-MB-231 Breast Carcinoma. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 1-15.	1.9	14
54	Design, synthesis and anti-diabetic activity of some novel xanthone derivatives targeting α -glucosidase. <i>Bangladesh Journal of Pharmacology</i> , 2016, 11, 308.	0.1	13

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55	Metabolic pathway for degradation of 2-chloro-4-aminophenol by <i>Arthrobacter</i> sp. SPG. <i>Microbial Cell Factories</i> , 2014, 13, 164.	1.9	12
56	Genome-Wide Identification of Mitogen-Activated Protein Kinase Gene Family across Fungal Lineage Shows Presence of Novel and Diverse Activation Loop Motifs. <i>PLoS ONE</i> , 2016, 11, e0149861.	1.1	12
57	Class Topper Optimization Based Improved Localization Algorithm in Wireless Sensor Network. <i>Wireless Personal Communications</i> , 2021, 119, 3319-3338.	1.8	12
58	The 3D Genome: From Structure to Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11585.	1.8	12
59	Current Treatment Options for COVID-19 Associated Mucormycosis: Present Status and Future Perspectives. <i>Journal of Clinical Medicine</i> , 2022, 11, 3620.	1.0	12
60	<i>Abutilon indicum</i> (L.) Sweet Leaf Extracts Assisted Bio-Inspired Synthesis of Electronically Charged Silver Nano-Particles with Potential Antimicrobial, Antioxidant and Cytotoxic Properties. <i>Materials Focus</i> , 2018, 7, 94-100.	0.4	11
61	Exploring the Bioactive Potentials of C60-AgNPs Nano-Composites against Malignancies and Microbial Infections. <i>International Journal of Molecular Sciences</i> , 2022, 23, 714.	1.8	10
62	Wet chemical development of CuO/GO nanocomposites: its augmented antimicrobial, antioxidant, and anticancerous activity. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 151.	1.7	10
63	Virtual 2-D map of the fungal proteome. <i>Scientific Reports</i> , 2021, 11, 6676.	1.6	8
64	Mitogen Activated Protein Kinase (MPK) Interacts With Auxin Influx Carrier (<i>OsAux/LAX1</i>) Involved in Auxin Signaling in Plant. <i>Biological Procedures Online</i> , 2015, 17, 13.	1.4	7
65	Exploration of Lamiaceae in Cardio Vascular Diseases and Functional Foods: Medicine as Food and Food as Medicine. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	7
66	Developmental- and stress-mediated expression analysis of cinnamoyl-CoA reductase 1 (CCR1) from <i>Hibiscus cannabinus</i> . <i>Journal of Plant Interactions</i> , 2015, 10, 158-166.	1.0	6
67	Construction of anti-codon table of the plant kingdom and evolution of tRNA selenocysteine (tRNA ^{Sec}). <i>BMC Genomics</i> , 2020, 21, 804.	1.2	6
68	Application of <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> to Cabbage (<i>Brassica oleracea</i> L.) Improves Both Its Seedling Quality and Field Performance. <i>Sustainability</i> , 2022, 14, 7583.	1.6	6
69	Biochemical responses of maize seedlings exposed to SnNPs. <i>Micro and Nano Letters</i> , 2019, 14, 645-649.	0.6	5
70	Analysis of genomic tRNA revealed presence of novel genomic features in cyanobacterial tRNA. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 124-133.	1.8	5
71	Role of Biotechnology in Bioremediation. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2015, , 399-432.	0.3	4
72	Role of azithromycin in antiviral treatment: enhancement of interferon-dependent antiviral pathways and mitigation of inflammation may rely on inhibition of the MAPK cascade?. <i>American Journal of Translational Research (discontinued)</i> , 2020, 12, 7702-7708.	0.0	4

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73	Advanced localization algorithm for wireless sensor networks using fractional order class topper optimization. <i>Journal of Supercomputing</i> , 0, , 1.	2.4	4
74	Cloning and characterization of auxin efflux carrier genes EcPIN1a and EcPIN1b from finger millet <i>Eleusine coracana</i> L. <i>3 Biotech</i> , 2017, 7, 51.	1.1	3
75	Novel Insights into the Molecular Interaction of a Panduratin A Derivative with the Non Structural Protein (NS3) of Dengue Serotypes: A Molecular Dynamics Study. <i>Current Pharmaceutical Biotechnology</i> , 2017, 18, 769-782.	0.9	3
76	Synthesis and Modeling Studies of Furoxan Coupled Spiro-Isoquinolino Piperidine Derivatives as NO Releasing PDE 5 Inhibitors. <i>Biomedicines</i> , 2020, 8, 121.	1.4	3
77	Analysis of mutations of defensin protein using accelerated molecular dynamics simulations. <i>PLoS ONE</i> , 2020, 15, e0241679.	1.1	3
78	<i>In silico</i> evaluation of NO donor heterocyclic vasodilators as SARS-CoV-2 M ^{pro} protein inhibitor. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 280-297.	2.0	3
79	Plant Source Derived Compound Exhibited <i>In Silico</i> Inhibition of Membrane Glycoprotein In SARS-CoV-2: Paving the Way to Discover a New Class of Compound For Treatment of COVID-19. <i>Frontiers in Pharmacology</i> , 2022, 13, 805344.	1.6	3
80	Global Trends in Phytohormone Research: Google Trends Analysis Revealed African Countries Have Higher Demand for Phytohormone Information. <i>Plants</i> , 2020, 9, 1248.	1.6	2
81	Corona virus (CoVid19) genome: genomic and biochemical analysis revealed its possible synthetic origin. <i>Journal of Applied Biotechnology & Bioengineering</i> , 2020, 7, 200-213.	0.0	2
82	Fungal genomes: suffering with functional annotation errors. <i>IMA Fungus</i> , 2021, 12, 32.	1.7	2
83	PlantMWpIDB: a database for the molecular weight and isoelectric points of the plant proteomes. <i>Scientific Reports</i> , 2022, 12, 7421.	1.6	2
84	Physicochemical characterization, antioxidant activity and total phenolic content of value-added products from indigenous banana varieties of Assam, India. <i>Measurement Food</i> , 2022, , 100040.	0.8	2
85	Genome-wide analysis revealed novel molecular features and evolution of Anti-codons in cyanobacterial tRNAs. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1195-1200.	1.8	1
86	Performance Analysis of a Particle Swarm Optimization based Localization Algorithm in Wireless Sensor Network. , 2020, , .		1
87	Recent Developments on Nanotechnology in Agriculture. , 2019, , 79-86.		1
88	An Overview of Mycogenic Nanoparticles. , 2019, , 87-97.		1
89	Virtual 2D mapping of the viral proteome reveals host-specific modality distribution of molecular weight and isoelectric point. <i>Scientific Reports</i> , 2021, 11, 21291.	1.6	1